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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/917,859	07/31/2001	Shigeoki Kayama	313KA/50252	9469		
75	590 08/29/2002					
CROWELL & MORING, L.L.P.			EXAMINER			
P.O. Box 14300 Washington, Do) C 20044-4300		SICONOLFI	, ROBERT		
			ART UNIT	PAPER NUMBER		
			3683			
			DATE MAILED: 08/29/2002	DATE MAILED: 08/29/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.		Applicant(s)					
الماري ال	09/917,859		KAYAMA ET AL.					
Office Action Summary	Examiner		Art Unit					
	Robert A Siconol		3683					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM								
THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v. Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, hower y within the statutory min will apply and will expire	ever, may a reply be tin imum of thirty (30) day SIX (6) MONTHS from b become ABANDONE	nely filed s will be considered timely, the mailing date of this cor D (35 U.S.C. § 133).	nmunication.				
Responsive to communication(s) filed on	·							
,	is action is non-fi	nal.						
3) Since this application is in condition for allowa	ance except for fo	ormal matters, pi	osecution as to the	e merits is				
closed in accordance with the practice under Disposition of Claims	Ex parte Quayle,	1935 C.D. 11, 4	53 O.G. 213.					
4) Claim(s) 1-9 is/are pending in the application.								
4a) Of the above claim(s) <u>7-9</u> is/are withdrawn from consideration.								
5) Claim(s) is/are allowed.								
6) Claim(s) <u>1-6</u> is/are rejected.								
7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and/or election requirement.								
Application Papers								
9) The specification is objected to by the Examiner.								
10)⊠ The drawing(s) filed on <u>7/31/01</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12)☐ The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120		5110000440/-	.) (4) (5)					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a)⊠ All b)□ Some * c)□ None of:								
1. Certified copies of the priority documents have been received.								
2. Certified copies of the priority document								
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) The translation of the foreign language pro	ovisional applicat	ion has been red	ceived.					
Attachment(s)	p		•					
1) Notice of References Cited (PTO-892)	4) 🔲	Interview Summar	y (PTO-413) Paper No(s)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4	5) 1. 6) 2.		Patent Application (PTC					

DETAILED ACTION

1. Declaration filed on 11/7/01 has been received. Information Disclosure Statement filed on 7/31/01 has been received.

Drawings

- 2. Figures 6-8 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.
- 3. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the combination of a coupling member and the spacer member must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Objections

4. Claims 7-9 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim cannot depend from any other multiple dependent claim. See MPEP § 608.01(n). Accordingly, the claims 7-9 not been further treated on the merits.

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Claim Rejections - 35 USC § 112

5. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

6. Claim 6 is rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claim 6 discloses a spacer element which can be seen in figure 5 and prior art figure 8. Claim 6 depends from any of claims 2-4 which discloses a coupling member. The coupling member 30 can be seen in prior art Figure 7. There is no disclose regarding the combination of these two elements. The examiner believes that the can not be combined because the spacer and the coupling element both serve as an intermediary element between the hub and CV joint housing.

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation

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under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

9. Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hoffman et al (U. S. Patent no. 5,674,011)

Hoffman et al is the admitted prior art of Figure 7 and is discussed in the specification on pages 6 and 7. This is also the only disclosure in the instant application of the coupling device, which is claimed in all of the independent claims. Axle unit having an outside end that doesn't rotate, hub 9 with first spline section unnumbered, drive member 2 with second spline section 10 and an inside end forming the housing of the constant velocity joint, coupling member 8, rolling bodies 42, outer race 1, constant velocity joint unnumbered

Hoffman et al does not disclose the clearance angle between the first and second spline section. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the ranges claimed for the clearance angle as such is merely an optimization based on routine experimentation. Optimization based on routine experimentation is only patentable when the range is considered critical or the experimentation produces unexpected results (see MPEP 2144.05 and 716.02).

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10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert A Siconolfi whose telephone number is (703) 305-0580. The examiner can normally be reached on M-F 9 am-3 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Lavinder can be reached on (703) 308-3421. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-7687 for regular communications and (703) 305-7687 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1113.

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RS August 26, 2002

ROBERT A. SICONOLI-I
PATENT EXAMINER